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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/566,200

01/27/2006

Rainer Schenk

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HEDMAN & COSTIGAN P.C.  
1185 AVENUE OF THE AMERICAS  
NEW YORK, NY 10036

EXAMINER

WAITS, ALAN B

ART UNIT

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PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/566,200	<b>Applicant(s)</b> SCHENK ET AL.	
	<b>Examiner</b> ALAN B. WAITS	<b>Art Unit</b> 3656	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 29 December 2008.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-10 and 14 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-10 and 14 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 27 January 2006 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All    b) ☐ Some \*    c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)                     | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____                                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)          | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____  | 6) <input type="checkbox"/> Other: _____                          |

## **DETAILED ACTION**

### ***Drawings***

1. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the supporting line must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

### ***Claim Rejections - 35 USC § 112***

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

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The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claim 1 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1 recites the limitation "the inner wall". There is insufficient antecedent basis for this limitation in the claim.

***Claim Rejections - 35 USC § 102***

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

5. Claims 1-10 and 14 are rejected under 35 U.S.C. 102(e) as being anticipated by Ohata et al. USP 7416343.

Ohata discloses a similar device comprising:

Re clm 1:

- An elastic sealing disk (49b, fig 5) running around with an outer bearing ring or a housing (40, fig 2), having a reinforcement (48, fig 5) and positionally fixed with positive engagement in a receptacle or an annular groove (51, fig 2)

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- The sealing disk engaging with a flexible seal in a recess (66, fig 5) of an inner bearing ring (42, fig 5) and being support by means of a sealing edge (64, fig 5) on a wall (60, fig 5)
- A first sealing lip (52a and 64, fig 5) is supported axially on an outer wall of the recess and a second sealing lip (65, fig 5) is assigned to the inner wall of the recess with play
- A mass of the first sealing lip forming a center of mass (64, fig 5), which, in a fitted position of the sealing arrangement, is offset in relation to a supporting line determined by the sealing disk in such a way that the centrifugal force acting at the center of mass initiates a force component acting in clockwise direction

Re clm 2:

- A shoulder diameter of the inner bearing ring exceeds an inside diameter of an inner sealing lip (fig 5)

Re clm 3:

- A distance between the inner wall of the recess and a free end of the second sealing lip is designed so that, even with a maximum rotational speed of the rolling-contact bearing, it ensures a distance  $> 0$  (fig 5)

Re clm 4:

- The first and second sealing lips being made to extend from a common sealing lip root of the sealing disk (49b, fig 5)

Re clm 5:

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- An axial offset between an end face of the sealing disk and the sealing edge of the first sealing lip being obtained in a fitted position of the two sealing lips (fig 5)

Re clm 6:

- The second sealing lip, obliquely inclined in relation to the inner wall and designed as a toe wall, is arranged axially offset in relation to the first sealing lip by a distance (fig 5)

Re clm 7:

- An elastic sealing disk (49b, fig 5) running around with an outer bearing ring or a housing (40, fig 2), having a reinforcement (48, fig 5) and positionally fixed with positive engagement in a receptacle or an annular groove (51, fig 2)
- The sealing disk engaging with a flexible seal in a recess (66, fig 5) of an inner bearing ring (42, fig 5) and being support by means of a sealing edge (64, fig 5) on a wall (60, fig 5)
- A first sealing lip (52a and 64, fig 5) is supported axially on an outer wall of the recess and a second sealing lip (65, fig 5) is assigned to the inner wall of the recess with play
- A mass of the first sealing lip forming a center of mass (64, fig 5), which, in a fitted position of the sealing arrangement, is offset in relation to a supporting line determined by the sealing disk in such a way that the

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centrifugal force acting at the center of mass initiates a force component acting in clockwise direction

- The first sealing lip has on the outside, on a side facing the second sealing lip, a bead (back end portion of 64, fig 5)

Re clm 8:

- The recess of which the inner bearing ring has walls of different heights
- The height of the inner wall, defined by the shoulder diameter of a bearing ring, exceeding the size of the diameter of the bearing ring in the region between the recess and an end face and also an inside diameter of the second sealing lip (fig 5)

Re clm 9:

- The first sealing lip being provided with at least one venting groove (tip of 64, fig 5) in a region of the sealing edge

Re clm 10:

- The venting groove of which is made to extend in a radial or inclined manner

Re clm 14:

- The reinforcement, formed in the manner of a disk, of the sealing disk being encapsulated at least on one side by an elastic sealing material of the sealing arrangement and the reinforcement forming on the outside of an angled-away flange (corner near 49, fig 2) and on the inside a leg (46b, fig 2) inclined obliquely in the direction of the recess

***Response to Arguments***

6. Applicant's arguments with respect to claims 1-10 and 14 have been considered but are moot in view of the new ground(s) of rejection.

***Conclusion***

7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ALAN B. WAITS whose telephone number is (571)270-3664. The examiner can normally be reached on Monday through Friday 7:30 am to 5 pm EST.



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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Ridley can be reached on 571-272-6917. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Alan B Waits/  
Examiner, Art Unit 3656

/Richard WL Ridley/  
Supervisory Patent Examiner, Art Unit 3656